

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GP 1743
PATENT APPLICATION

Inventor(s): Sugiyama et al.

Appln. No.: 09

Series Code ↑

098,730

Serial No. ↑

Filed: June 18, 1998

Hon. Commissioner of Patents
Washington, D.C. 20231

Group Art Unit 1743

Examiner: Tung

Atty. Dkt. P 0254782

M# U3-98-7-TS

Appln. Title: MULTILAYERED AIR-FUEL RATIO

SENSOR

Sir:

SUPPLEMENTAL PRELIMINARY AMENDMENT

Date: April 17, 2001

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

FEE REQUIREMENTS FOR CLAIMS AS AMENDED

1. Small Entity claim	For B & C See Required Separate Paper (Pat-256)
A. <input checked="" type="checkbox"/> NOT made	
B. <input type="checkbox"/> Withdrawn	
C. <input type="checkbox"/> made herewith	
D. <input type="checkbox"/> made previously	

	Claims remaining after amendment	Highest number previously paid for	Present Extra	Large/Small Entity	Additional Fee	Fee Code Lg/Sm
2. Total Effective Claims	21	**minus 20	1	x \$18/\$9 =	+ \$18	103/203
3. Independent Claims	3	***minus 3	0	x \$80/\$40 =	+ \$0	102/202
4. If amendment enters proper multiple dependent claim(s) into this application for first time (leave blank if this is a reissue application)		add	+ \$270/\$135 =	+ \$0		104/204
5. Original due Date: <input checked="" type="checkbox"/> NONE						
6. Petition is hereby made to extend the original due date to cover the date this response is filed for which the requisite fee is attached	(1 mo) (2 mos) (3 mos)	\$110/\$55 = \$390/\$195 = \$890/\$445 =	+ \$0			115/215 116/216 117/217 118/218 128/228
	(Usable only for ≤ 2mo.OA --- 4 mos)	\$1390/\$695=				
	(Usable only for 30 day/1mo.OA --- 5 mos)	\$1890/\$945=				
7. Enter any previous extension fee paid since above original due date and subtract			- \$0			
8.			Extension Fee Attached	+ \$0		
9. If Terminal Disclaimer attached, add Rule 20(d) official fee		+ \$110/\$55	+ \$0			148/248
10. If IDS attached requires Official Fee under Rule 97 (c), or if Rule 97(d) Request	add add	+ \$180 + \$180	+ \$0			126 126
11. After-Final Request Fee per rules 129(a) and 17(r)		+ \$710/355	+ \$0			146/246
12. No. of additional inventions for examination per Rule 129(b).....		x \$710/355 ea	+ \$0			149/249
13. Request for Continued Examination (RCE)		+ \$710/355	+ \$0			1179/1279
14. Petition fee for			+ \$0			
15.		TOTAL FEE ENCLOSED =	\$18			

16. *If the entry in this space is less than entry in next space, the "Present Extra" result is "0".

17. **If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.

18. ***If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.

Our Deposit Account No. 03-3975

(Our Order No. 60388 0254782

C# M#

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fees filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an Issue fee transmittal sheet is filed.

Query: Is appeal deadline now? If so, file Notice of Appeals separately.

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Intellectual Property Group
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NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments

J. Lawrence
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#215
4.26.01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF

SUGIYAMA et al.

Appln. No.: 09/098,730



Group Art Unit: 1743

Examiner: Tung

Filed: June 18, 1998

Title: MULTILAYERED AIR-FUEL RATIO SENSOR

April 17, 2001

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SUPPLEMENTAL PRELIMINARY AMENDMENT

RECEIVED
APR 20 2001

TC 1700 MAIL ROOM

Hon. Commissioner of Patents
Washington, D.C. 20231

Sir:

Prior to examination of the Continuation Application identified above, please further amend the Application as follows:

IN THE CLAIMS:

Please replace claim 1 with the following:

1. (Five times amended) A multilayered air-fuel ratio sensor having a plurality of stacked layers comprising:

a plurality of substrate layers comprising at least one solid electrolytic substrate layer and at least one insulating substrate layer; and

a boundary layer interposed between said solid electrolytic substrate layer and said insulating substrate layer;